CH2M HILL
1111 Broadway
P.O. Box 12681
Oakland, CA
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Tel 510.251.2426
Fax 510.893.8205

CH2MHILL

May 29, 1997

139769.01.01

Ms. Sue M. Jenne
Wastewater Control Representative
East Bay Municipal Utility District
P.O. Box 24055
Oakland, CA 94623

Dear Ms. Jenne:

Subject: Quarterly Monitoring Report, Groundwater Extraction and Treatment System
Del Monte Plant 35, Emeryville, California
Wastewater Discharge permit No. 502-65112

Enclosed is the final quarterly monitoring report for the above-referenced site, covering the period of February 1, 1997 to April 30, 1997. The extraction and treatment system was dismantled during the week of March 17th. The only operation of the treatment system during this reporting period was the treatment of approximately 9,000 gallons of groundwater that remained in the Baker Tank at the time of dismantlement. This water was treated and discharged to the sanitary sewer. The enclosed report includes results of the sampling conducted during the system dismantlement. Please contact me if you have any questions about the report.

Sincerely,

CH2M HILL

Madeline Wall

Madeline Wall
Project Manager

Enclosure
c: Mr. Steve Ronzone/Del Monte
Mr. Thomas Bender/The Bender Partnership
Mr. Brian Oliva/ACDEH
Mr. Sum Arigala/RWQCB

Final Quarterly Groundwater Extraction and Treatment System Status Report

Prepared for

Del Monte Plant 35
4204 Hollis Street
Emeryville, California

MAY 30, 1997

CH2M HILL

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature

DIR. / PROP. MGMT.
Title

5-30-97
Date

Contents

Figures

1.0 Introduction

This report presents the status of the groundwater extraction and treatment (GET) system located at Del Monte Plant 35 at 4204 Hollis Street in Emeryville, California. The reporting period is February 1, 1997 through April 30, 1997. During this period, the extraction and treatment system was dismantled. The only operation of the system occurred during dismantlement to treat groundwater that remained in the Baker tank prior to discharge to the sanitary sewer. Treatment system samples were collected on March 19, 1997 during system dismantlement.

2.0 Background

Del Monte Plant 35 is located in an industrial area and was a food processing plant from the late 1920s through 1989. Plant 35 is located on approximately 13 acres; the West Parcel, located at 4204 Hollis Street, is approximately 2 acres in size and the East Parcel, located at 1250 Park Avenue, is approximately 11 acres in size (Figure 1).

Plant 35 is underlain by approximately 5 to 8 feet of fill which is composed primarily of clay containing gravel. Native silty clay extends from beneath the fill to a depth of approximately 15 to 20 feet below ground surface. Discontinuous lenses of sands and gravels have also been encountered within the native silty clay. This silty clay zone is underlain with silty sand. Shallow groundwater exists beneath the property at a depth of approximately 7 to 10 feet below ground surface and flows in a southwesterly direction (Figure 2).

Del Monte removed four 50-gallon underground tanks from the West Parcel in March 1989 as described in "Property Assessment and Tank Removal Report, Del Monte Plant No. 35, Southwest Corner" (CH2M HILL, September 1989). These tanks were located adjacent to a building that Del Monte had previously leased to medical research companies. The tanks were used to store fuel oil; however, prior to removal of the tanks, tank content sampling revealed the presence of chlorinated hydrocarbon compounds. Subsequent groundwater investigations revealed the presence of chlorinated hydrocarbon compounds in the shallow groundwater in the vicinity of the former fuel oil tank area. Del Monte has been monitoring the groundwater in the vicinity of the former fuel oil tank since May 1989.

Del Monte demolished and removed the building located at the southwest corner of the West Parcel during December 1992. The removal of this building provided access to soil that could not be removed during the removal of the four fuel oil tanks in 1989.

Groundwater investigations conducted in 1994 on the East Parcel of Plant 35 indicated that a portion of East Parcel groundwater contained chlorinated and petroleum hydrocarbons. In June and July 1995, Del Monte conducted soil remediation activities on the East Parcel. Soil containing chlorinated and petroleum hydrocarbons was removed and an underground fuel oil storage tank and surrounding affected soil were removed. Groundwater remediation was then initiated.

3.0 Groundwater Extraction and Treatment System

3.1 GET System Description

In 1995, a groundwater extraction system was constructed on the East Parcel and the West Parcel treatment unit was modified to treat water pumped from the East Parcel. The new GET system is described below.

In June and July 1995, remedial activities conducted on the East Parcel involved the removal of soil containing petroleum and chlorinated hydrocarbons and an underground tank. A drain and sump system for groundwater extraction was constructed in the pit left after the removal activities. An area at the western end of the pit was selected for the location of the extraction sump system. Several bucket scoops of soil were removed to lower this area to the desired depth of 20 feet, making the location the deepest portion of pit. A 12-inch diameter pipe was lowered into the pit area (about 3 feet x 3 feet in area).

The pipe was 20 feet long and perforated with 60 holes per foot. The pipe was capped at the bottom end. One-half inch diameter drain rock was placed around the pipe. Drain rock was used to form a mound around the base of the pipe. Figure 3 shows a schematic of the extraction sump.

The existing groundwater treatment system located on the West Parcel of the Plant 35 property was modified to accommodate the expected flow and chemical constituent concentrations from the East Parcel groundwater extraction system. Modifications included replacing the existing carbons canisters with larger carbon units and installing piping and electrical connections between the East Parcel extraction pit and the West Parcel treatment unit. A pump was installed in the new extraction sump. Figure 4 is a flow diagram of the groundwater extraction and treatment system.

3.2 Wastewater Discharge Permit Requirements

Treatment system samples were collected and analyzed as required by the recently extended Wastewater Discharge Permit issued to Del Monte on November 1, 1996 by EBMUD. Sample port (SP) A (the effluent of activated carbon canister no. 2) is the only sample location required under the extended Wastewater Discharge Permit. At EBMUD's request, all future self-monitoring reports will refer to SP-A as side sewer no. 1 (SS#1). The extended Wastewater Discharge Permit includes the following self-monitoring reporting requirements:

- Sampling from sample port A (SS#1) once during each reporting quarter
- Analyze samples for total identifiable chlorinated hydrocarbons and benzene, toluene, ethylbenzene, and total xylenes

The wastewater discharge limitations are shown in the following table.

Regulated Parameter	Daily Maximum (in mg/L)
Total Identifiable Chlorinated Hydrocarbon (TICH)	0.035
1,1-dichloroethene	0.010
Trans-1,2-dichloroethene	0.010
Vinyl chloride	0.010
Benzene	0.005
Toluene	0.005
Ethylbenzene	0.005
Xylenes	0.005

4.0 Groundwater Extraction and Treatment System Dismantlement

Extraction of groundwater from the East Parcel extraction pit ceased on January 31, 1997. The treatment unit was dismantled during the week beginning March 17, 1997.

Water remaining in the Baker Tank was discharged through the carbon canisters to the sanitary sewer under an extended permit from the East Bay Municipal Utility District. Sediments in the bottom of the Baker Tank were collected in six 55-gallon drums. A sample of the sediments was tested for chlorinated hydrocarbons and BTEX. None were detected. The analytical results are provided in Appendix A. Based on the results, the drummed materials was emptied onto the ground and graded into the ground surface.

The carbon in the two carbon canisters was tested by the supplier, West States Carbon, and determined to be non-hazardous waste. The analytical results are provided in Appendix A. The two carbon canisters (with the carbon) were picked up by the supplier, West States Carbon.

The re-useable components of the treatment system, including the flow meter, pump, and surge tank, were transported to Del Monte's Walnut Creek facility. Other components were disposed of as solid waste.

The extraction trench on the West Parcel was abandoned by grouting the three PVC extraction sumps. The West Parcel extraction pit was backfilled using excess soil located on the West Parcel. The East Parcel extraction pit was backfilled with a combination of onsite soil and imported gravel.

On March 19, 1997, 9,300 gallons of groundwater stored in the Baker tank were treated and discharged to the sanitary sewer. The final flow totalizer reading was 7,684,793 gallons. A sample of the treated groundwater was collected prior to discharge (sample location SS#1) and analyzed for volatile halogenated organics and BTEX compounds. None were detected. The analytical report is provided in Appendix A.

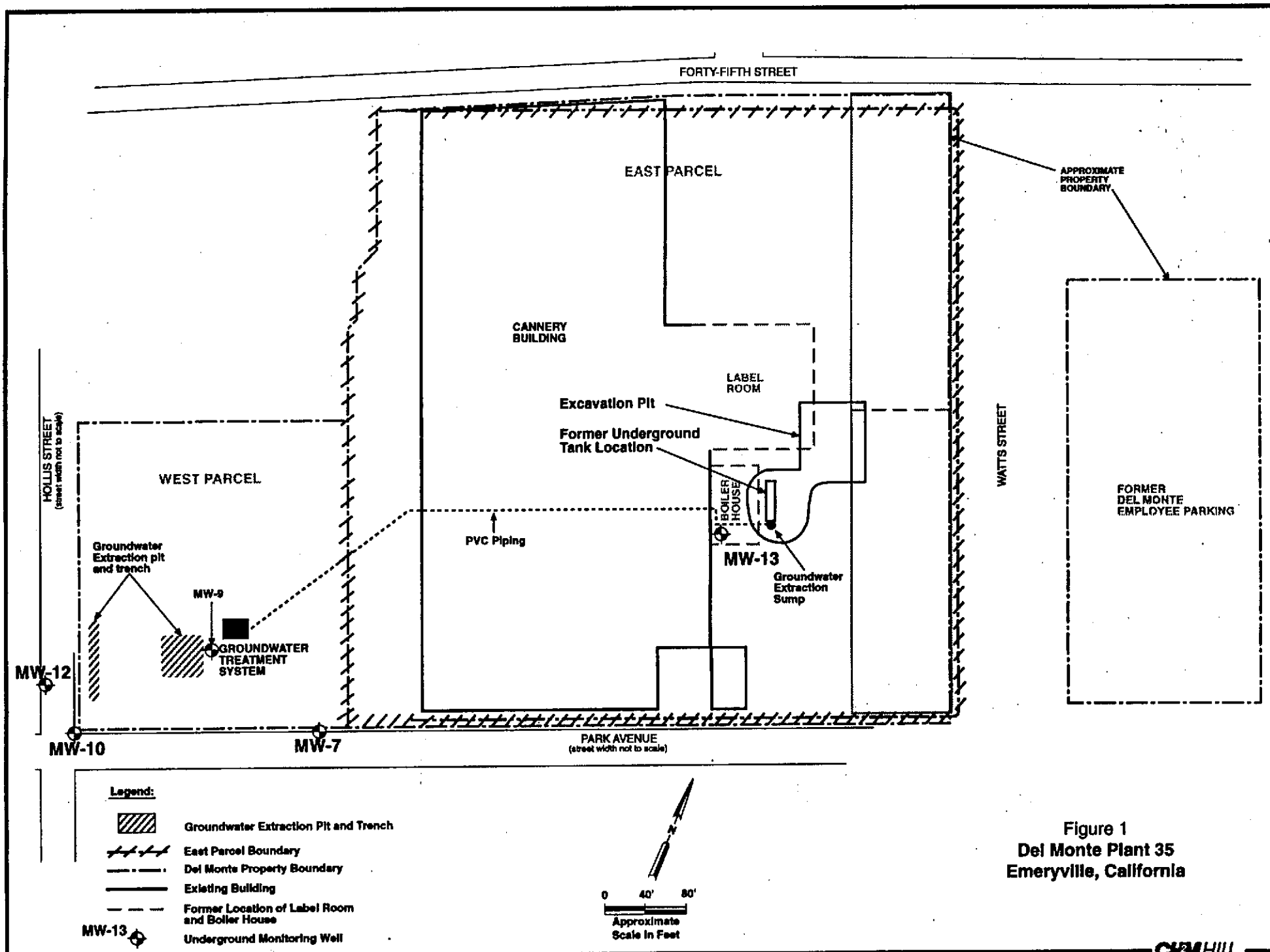

Figure 1
Del Monte Plant 35
Emeryville, California

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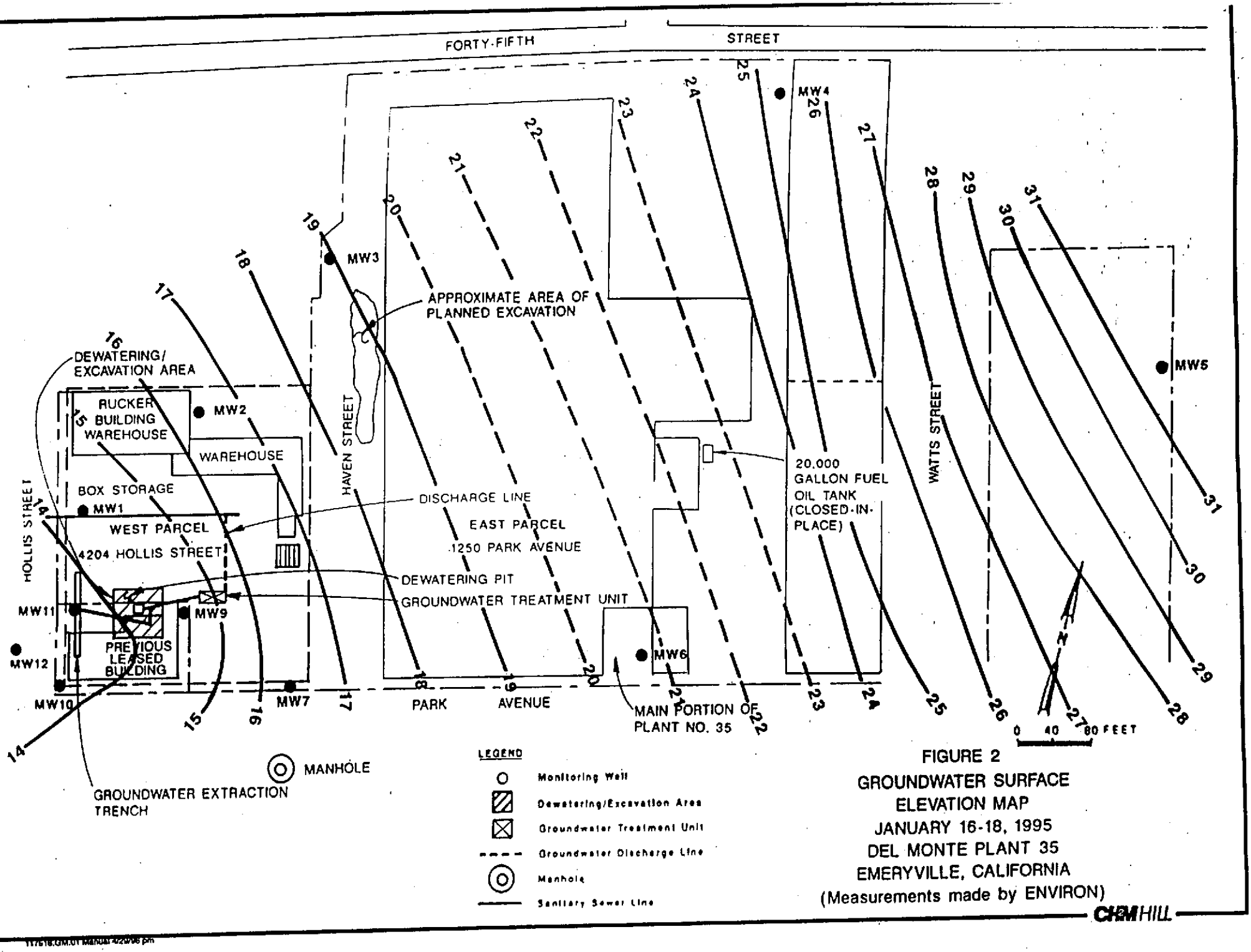

FIGURE 2
GROUNDWATER SURFACE ELEVATION MAP
JANUARY 16-18, 1995
DEL MONTE PLANT 35
EMERYVILLE, CALIFORNIA
(Measurements made by ENVIRON)

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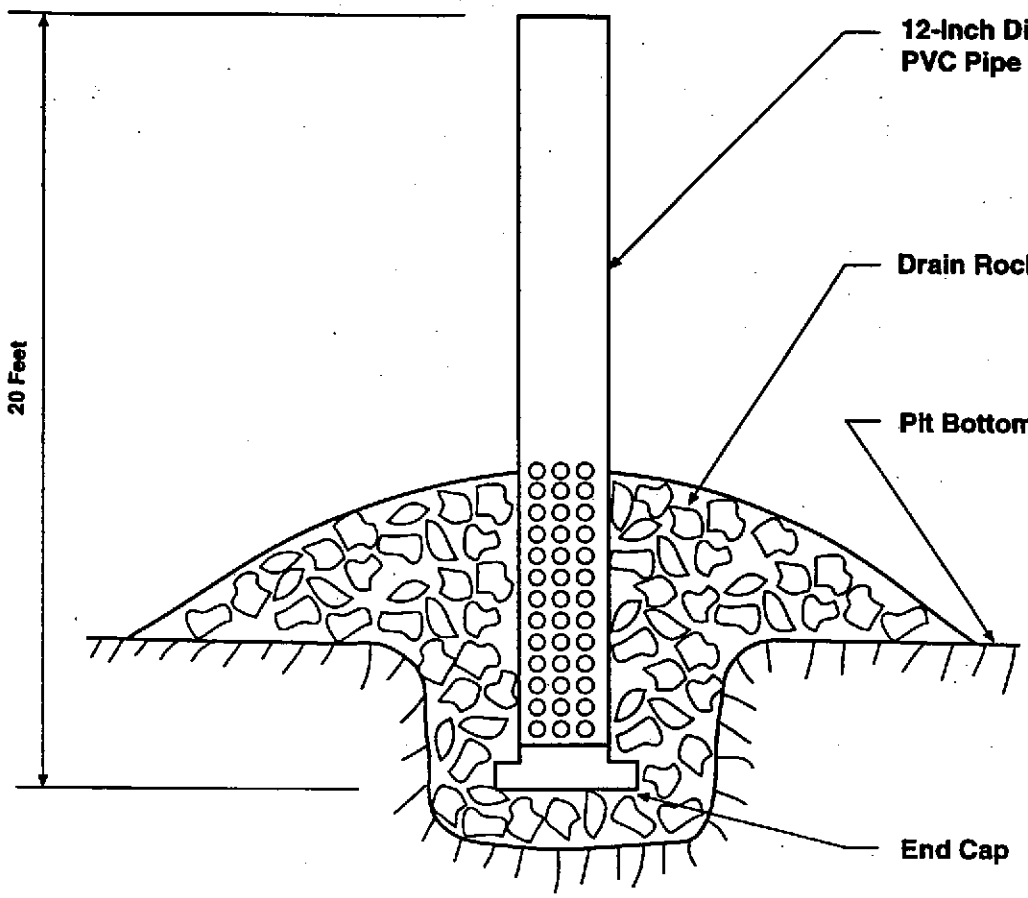
11/516.GM.01 Manual 02/06 pm



Not To Scale

Figure 3
Extraction Sump Schematic
Del Monte Plant 35
Emeryville, California

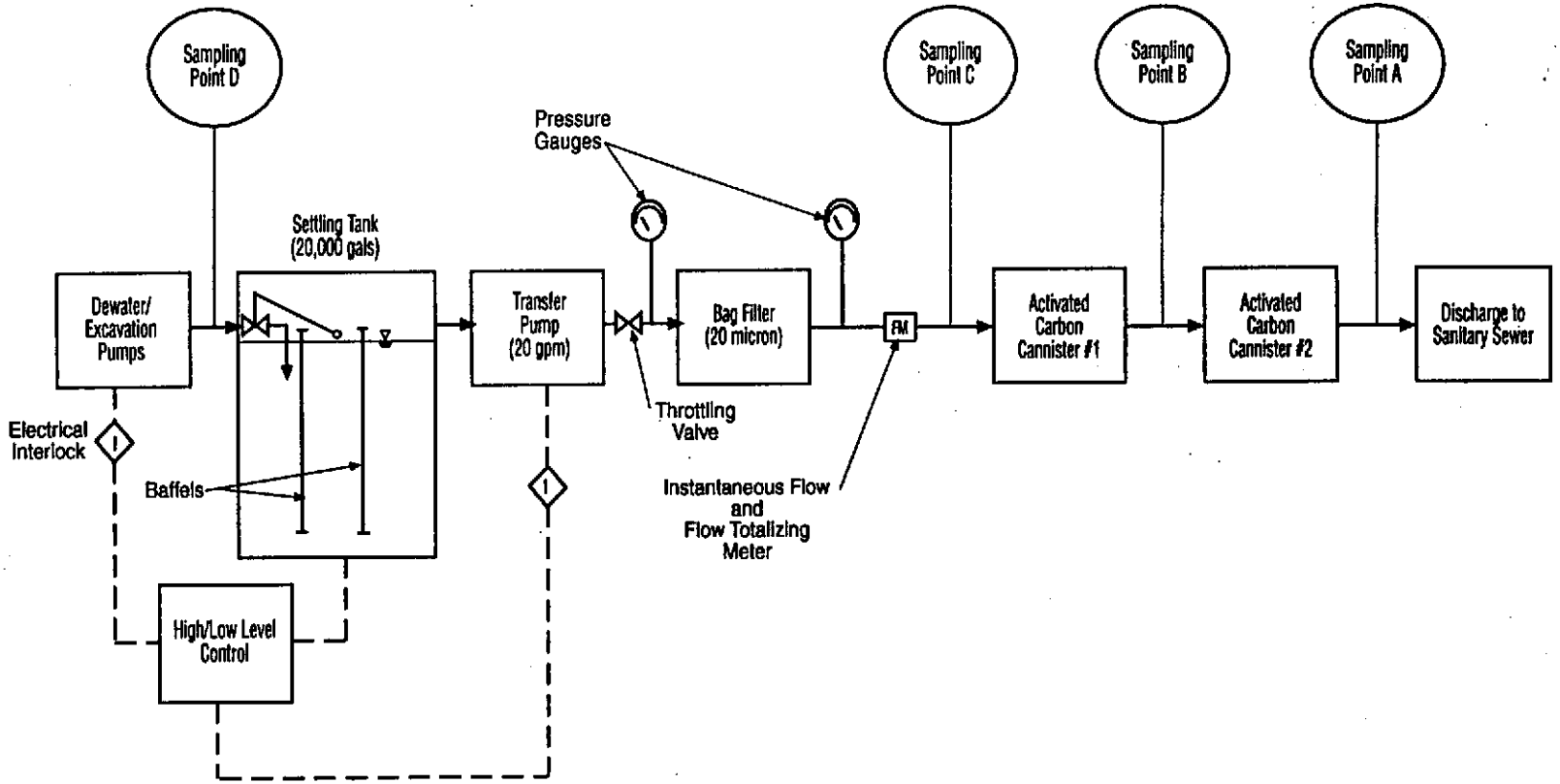


Figure 4
GET System Flow Diagram
Del Monte Plant 35
Emeryville, California

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Attachment A
Analytical Laboratory Reports

CHROMALAB, INC.

Environmental Services (SCB)

March 28, 1997 *Submission #:* 970332C

DECON ENV. SERVICES, INC.
Atten: Jason Gulbransen
Project: DELMONTE #35 *Project#:* 1774
Received: March 21, 1997
re: One sample for 8010 Purgeable Halocarbons by GC/MS analysis.
Method: *SW846 Method 8260A Nov 1990*

Client Sample ID: **TANK SEDIMENT**
Spl#: 122453 *Matrix:* SOLID
Sampled: March 21, 1997 *Run#:* 5986 *Analyzed:* March 28, 1997

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
CHLOROMETHANE	N.D.	10	N.D.	--	1
VINYL CHLORIDE	N.D.	5.0	N.D.	--	1
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--	1
CHLOROETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROFLUOROMETHANE	N.D.	10	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	107	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--	1
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
CHLOROFORM	N.D.	5.0	N.D.	--	1
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROETHENE	N.D.	5.0	N.D.	106	1
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--	1
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--	1
2-CHLOROETHYL VINYL ETHER	N.D.	10	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
TETRACHLOROETHENE	N.D.	5.0	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--	1
CHLOROBENZENE	N.D.	5.0	N.D.	105	1
BROMOFORM	N.D.	5.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--	1

June Zhao
Chemist

Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

March 28, 1997 Submission #: 9703320

DECON ENV. SERVICES, INC.

Atten: Jason Gulbransen

Project: DELMONTE #35 Project#: 1774
Received: March 21, 1997

re: One sample for BTEX analysis.
Method: SW846 8020A Nov 1990

Client Sample ID: TANK SEDIMENT
Spl#: 122453 Matrix: SOLID
Sampled: March 21, 1997 Run#: 5987 Analyzed: March 28, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
BENZENE	N.D.	0.0050	N.D.	102	1
TOLUENE	N.D.	0.0050	N.D.	98	1
ETHYL BENZENE	N.D.	0.0050	N.D.	106	1
XYLENES	N.D.	0.0050	N.D.	100	1

Kayvan Kimyai
Chemist

Marianne Alexander
Gas/BTEX Supervisor

U.S.FILTER

U.S. FILTER/WESTATES
2130 LEO AVENUE
LOS ANGELES, CA 90040

TELEPHONE 213/722-7500
FACSIMILE 213/722-8207

ANALYTICAL REPORT

Customer: Del Monte	Lab I.D. #: 6780
Project#:	Date Reported: 03/28/97
Address: 4204 Hollis Street Emeryville, CA	Date Sampled: 03/21/97 Date Received: 03/25/97
WES Contact: Keith Jones	Date Analyzed: 03/28/97
Sampler:	Date Extracted: 03/26/97

TCLP VOLATILES BY EPA 624
PURGEABLE ORGANICS

compound	cas #	concentration (mg/L)	limit of detection (mg/L)	TCLP limits (mg/L)
Vinyl Chloride	75-01-4	<0.03	0.03	0.2
1,1-Dichloroethene	75-35-4	<0.005	0.005	0.7
Chloroform	67-66-3	<0.005	0.005	6.0
1,2-Dichloroethane	107-06-2	<0.005	0.005	0.5
2-Butanone	78-93-3	<0.50	0.50	200
Carbon Tetrachloride	56-23-5	<0.01	0.010	0.5
Trichloroethene	79-01-6	<0.005	0.005	0.5
Benzene	71-43-2	<0.005	0.005	0.5
Tetrachloroethene	127-18-4	<0.005	0.005	0.7
Chlorobenzene	108-90-7	<0.005	0.005	100

The volatile organic analyses was extracted using a Zero Headspace Toxicity Characteristic Leaching Procedure (TCLP). The leachate was prepared according to the procedure as listed in the 49CFR March 29 and June 29 1990 Federal Registers.

A sample is considered to have failed the volatile TCLP test and is considered a hazardous waste if any of the volatile compounds exceed the maxima limits as listed in the last column. These limits have been taken from the March 29, Federal Register , pp 11845-6.

Respectfully submitted,

James R. Graham, Ph.D Technical Director

CHROMALAB, INC.

Environmental Services (SDB)

March 26, 1997 *Submission #:* 9703255

DECON ENV. SERVICES, INC.

Atten: Jason Gulbransen

Project: DEL MONTE #35 *Project#:* 139769.01.01
Received: March 19, 1997

re: One sample for Volatile Halogenated Organics analysis.
Method: *SW846 Method 8010A July 1992*

Client Sample ID: SP-A
Spl#: 121868 *Matrix:* WATER
Sampled: March 19, 1997 *Run#:* 5930 *Analyzed:* March 24, 1997

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
VINYL CHLORIDE	N.D.	0.50	N.D.	--	1
CHLOROETHANE	N.D.	0.50	N.D.	--	1
TRICHLOROFLUOROMETHANE	N.D.	0.50	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	0.50	N.D.	65.0	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
TRANS-1,2-DICHLOROETHENE	N.D.	0.50	N.D.	--	1
CIS-1,2-DICHLOROETHENE	N.D.	0.50	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	0.50	N.D.	--	1
CHLOROFORM	N.D.	3.0	N.D.	--	1
1,1,1-TRICHLOROETHANE	N.D.	0.50	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	0.50	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	0.50	N.D.	--	1
TRICHLOROETHENE	N.D.	0.50	N.D.	105	1
1,2-DICHLOROPROPANE	N.D.	0.50	N.D.	--	1
BROMODICHLOROMETHANE	N.D.	0.50	N.D.	--	1
2-CHLOROETHYL VINYL ETHER	N.D.	0.50	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	0.50	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	0.50	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	0.50	N.D.	--	1
TETRACHLOROETHENE	N.D.	0.50	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	0.50	N.D.	--	1
CHLOROBENZENE	N.D.	0.50	N.D.	99.0	1
BROMOFORM	N.D.	0.50	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	0.50	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	0.50	N.D.	--	1
CHLOROMETHANE	N.D.	1.0	N.D.	--	1
BROMOMETHANE	N.D.	1.0	N.D.	--	1

Oleg Nemtsov
Chemist

Chip Poalinelli
Operations Manager

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

March 26, 1997

Submission #: 9703255

DECON ENV. SERVICES, INC.

Atten: Jason Gulbransen

Project: DEL MONTE #35
Received: March 19, 1997

Project#: 139769.01.01

re: One sample for BTEX analysis.
Method: SW846 8020A Nov 1990

Client Sample ID: SP-A
Spl#: 121868
Sampled: March 19, 1997

Matrix: WATER
Run#: 5872

Analyzed: March 22, 1997

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
BENZENE	N.D.	0.50	N.D.	102	1
TOLUENE	N.D.	0.50	N.D.	102	1
ETHYL BENZENE	N.D.	0.50	N.D.	100	1
XYLENES	N.D.	0.50	N.D.	103	1

Kayvan Kimyai
Chemist

Marianne Alexander
Gas/BTEX Supervisor

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

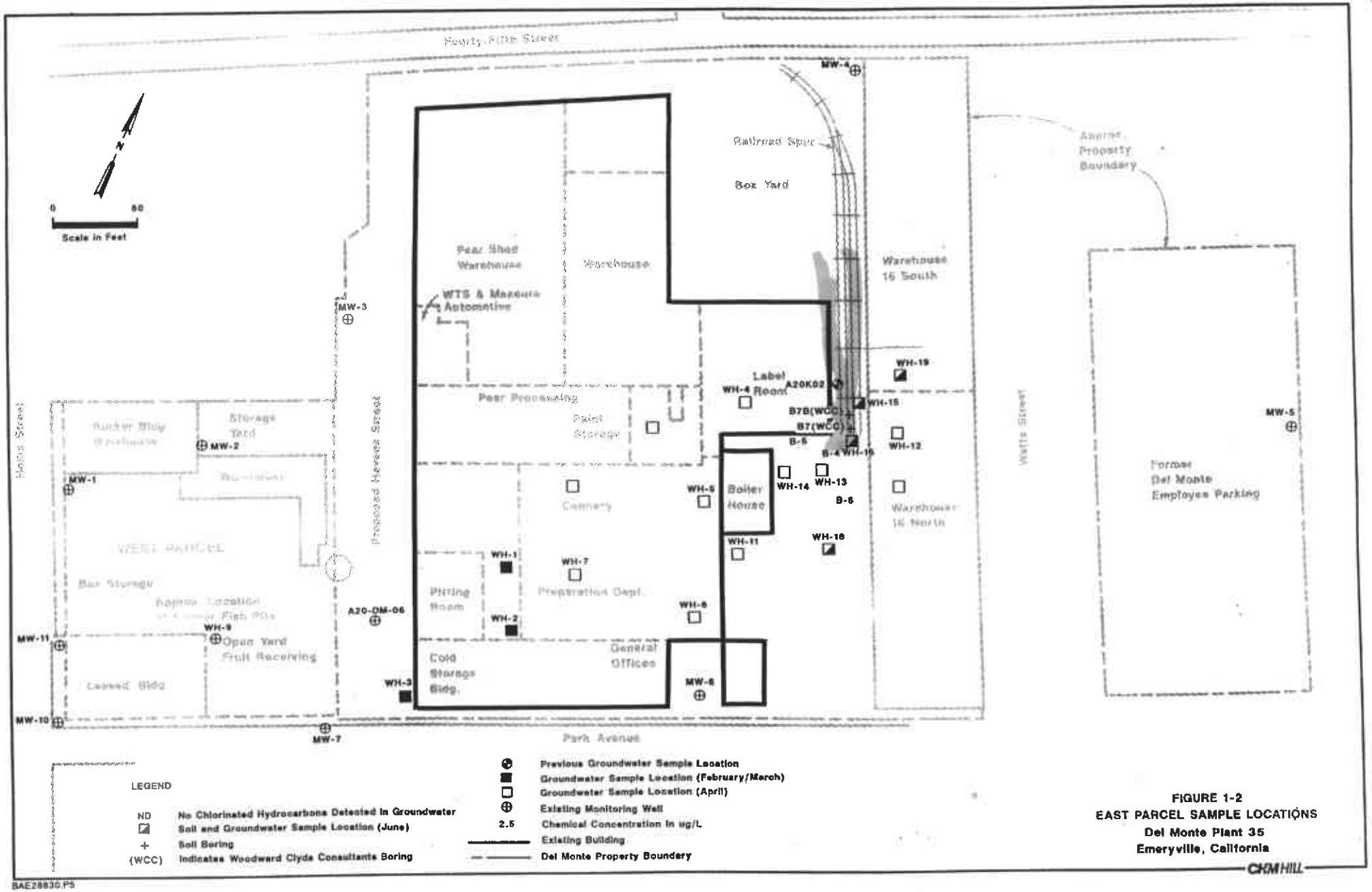

FIGURE 1-2
EAST PARCEL SAMPLE LOCATIONS
Del Monte Plant 35
Emeryville, California

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BAE28830.PS

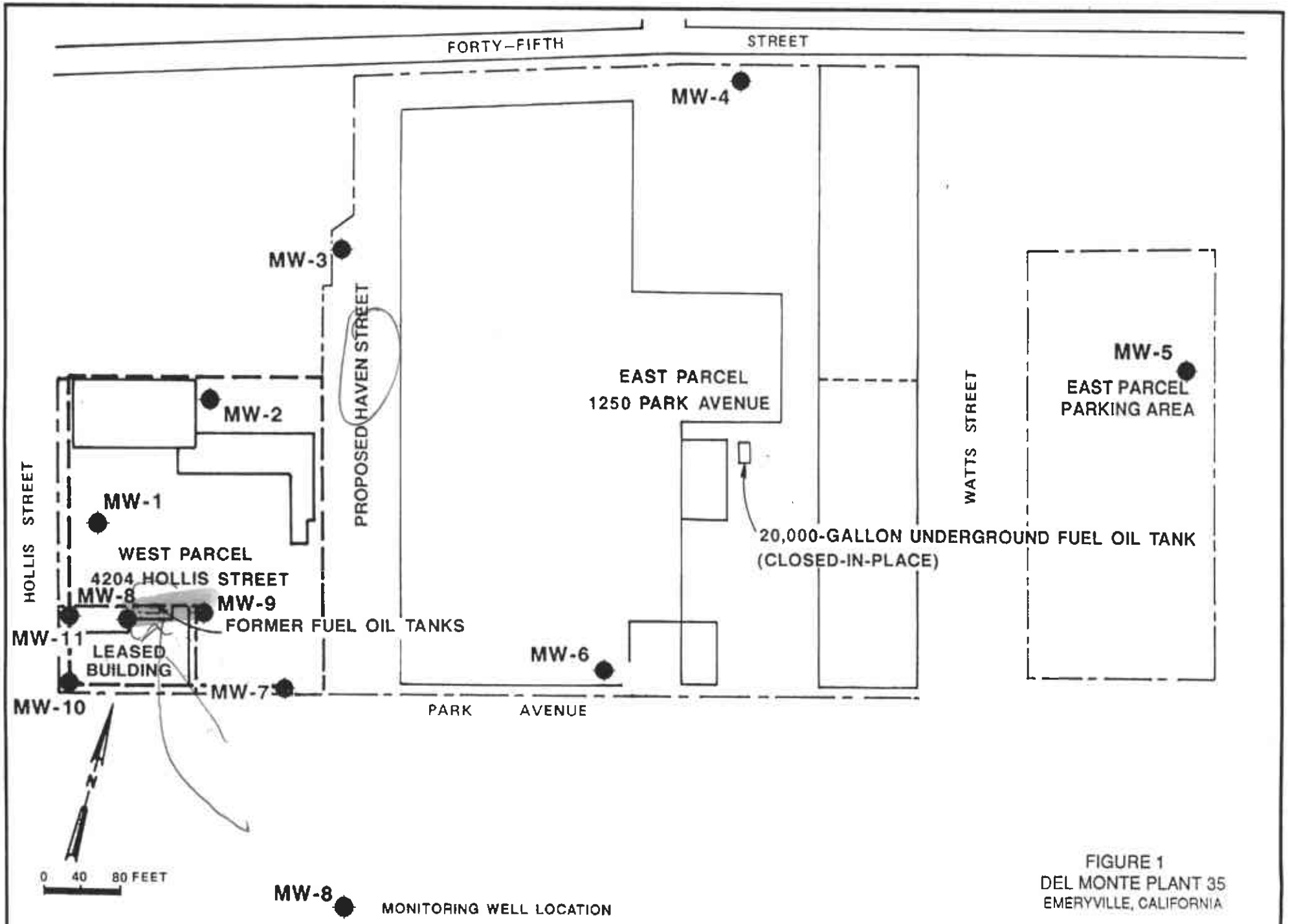

FIGURE 1
DEL MONTE PLANT 35
EMERYVILLE, CALIFORNIA

SFO28830.RC

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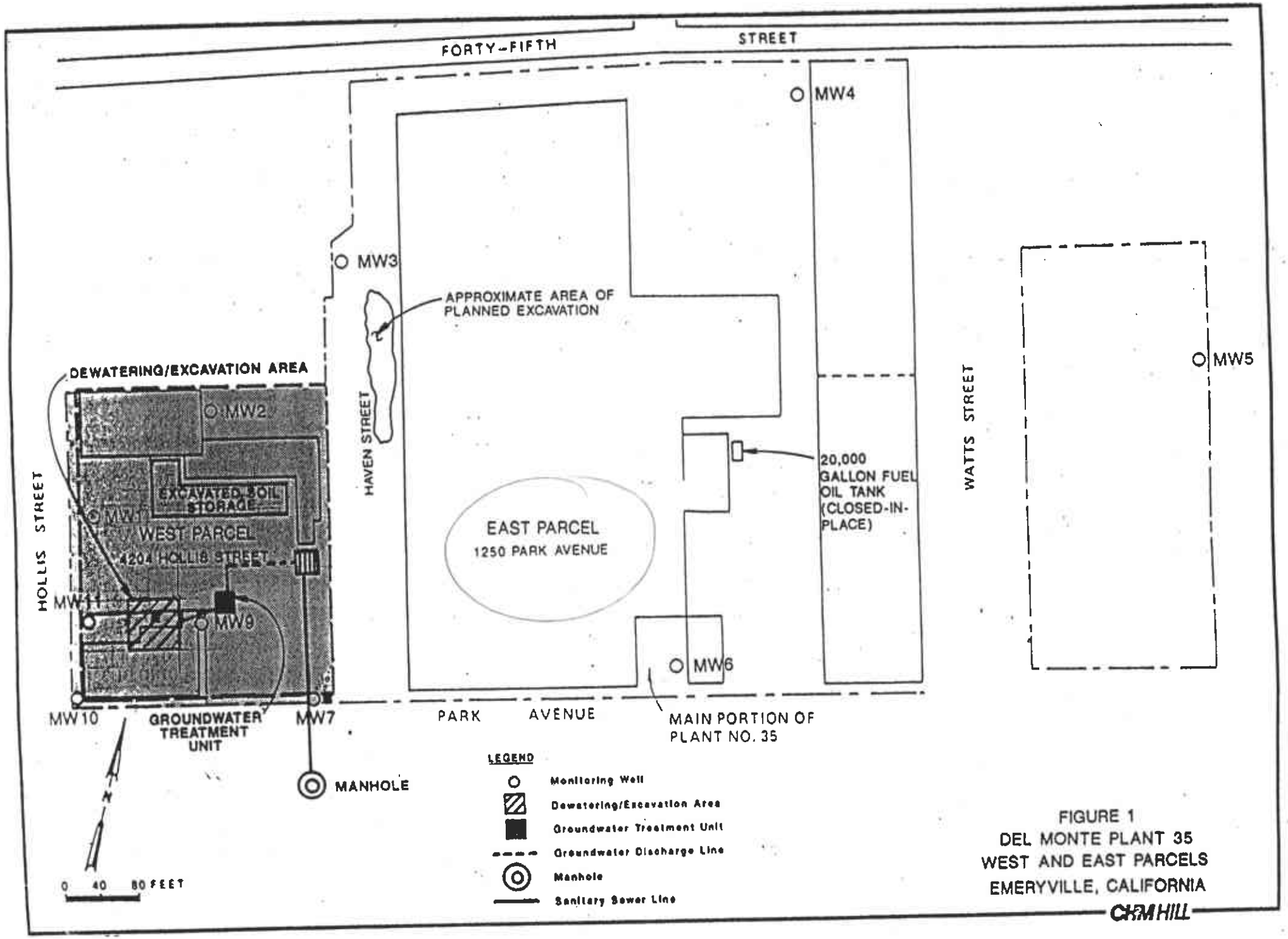


FIGURE 1
DEL MONTE PLANT 35
WEST AND EAST PARCELS
EMERYVILLE, CALIFORNIA

CH2M HILL

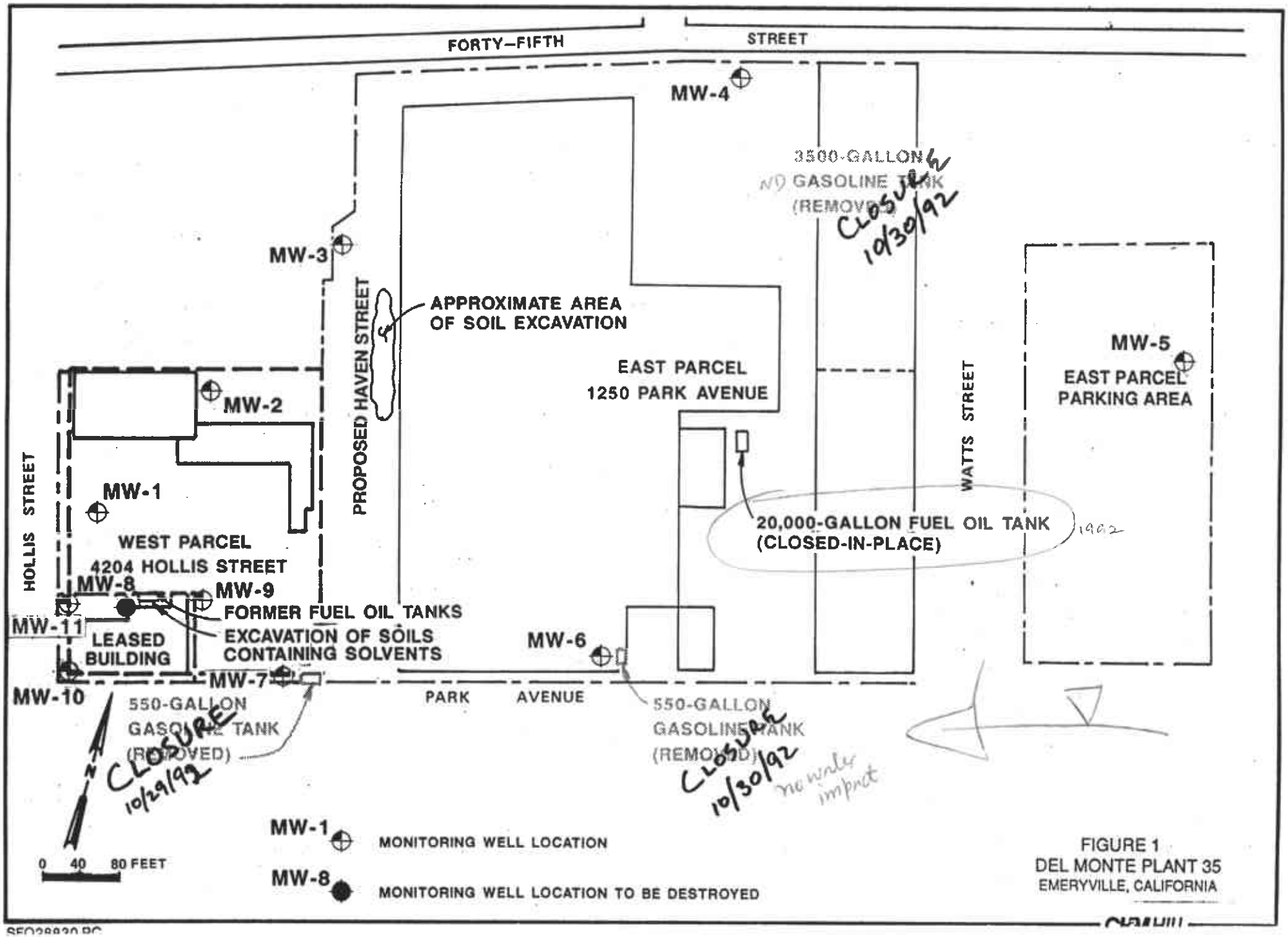


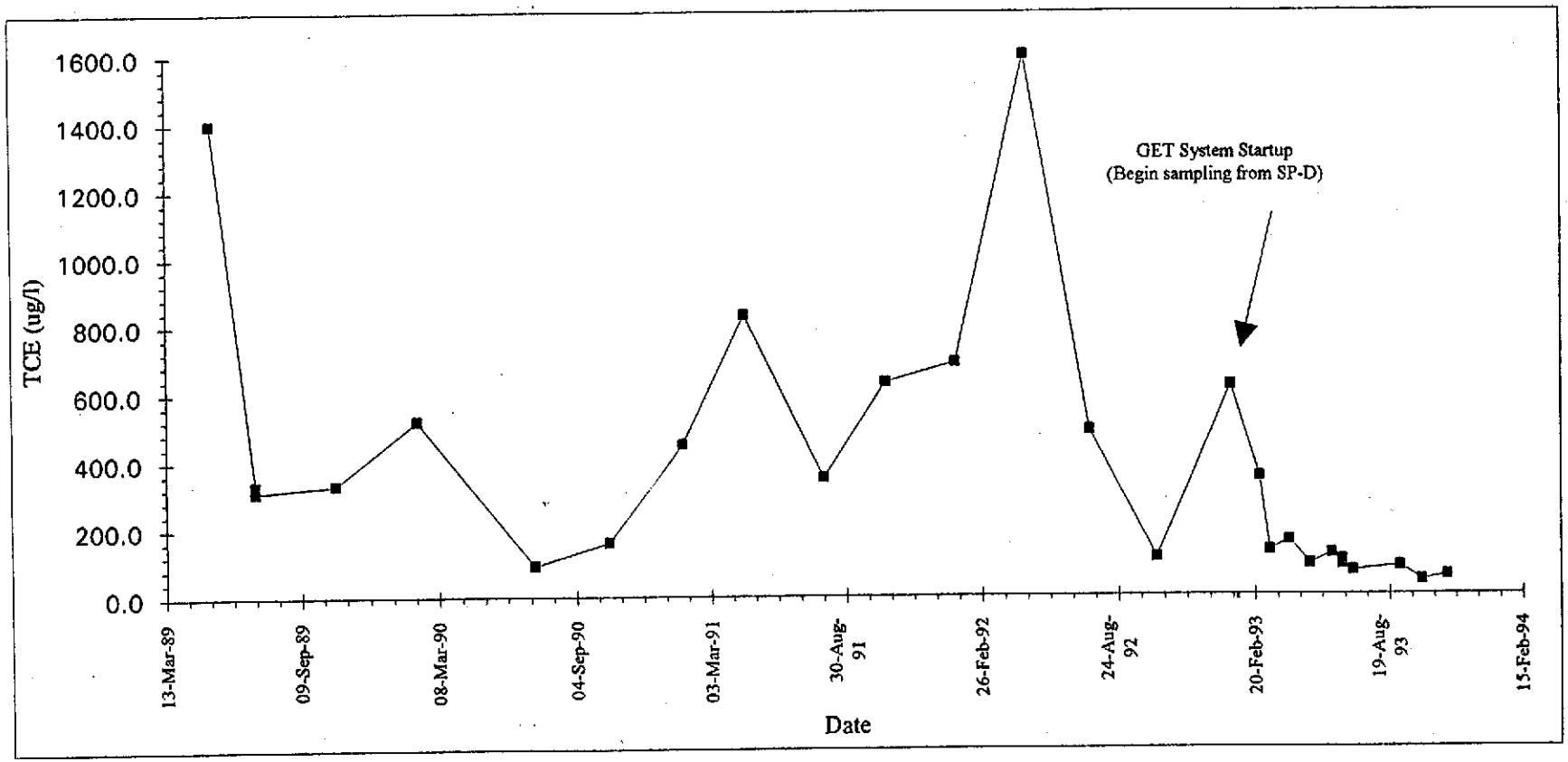
FIGURE 1
DEL MONTE PLANT 35
EMERYVILLE, CALIFORNIA

Accomplishments of Groundwater Extraction and Treatment System
(Operation Period: January 1993 - December 1993)

Del Monte Plant 35
Emeryville, California

- **Removal of 750 Cubic Yards of soil in source area**
- **Extracted and treated over 1.5 million gallons of groundwater**
- **Reduction of chlorinated hydrocarbons in all monitoring wells in the vicinity of the former tanks. (Monitoring wells: MW7, MW8 (SP-D), MW9, MW10, MW11)**
- **90% Reduction (approx.) of TCE in extraction well**
- **Reduced chlorinated hydrocarbon levels in monitoring well MW10 to below drinking water standards**
- **Asymptotic levels of chlorinated hydrocarbons observed**

dm8/bb


1600.0
1400.0
1200.0
1000.0
800.0
600.0
400.0
200.0
0.0
TCE (ug/l)
GET System Startup
(Begin sampling from SP-D)
13-Mar-89
09-Sep-89
08-Mar-90
04-Sep-90
03-Mar-91
30-Aug-91
26-Feb-92
24-Aug-92
20-Feb-93
19-Aug-93
15-Feb-94
Date

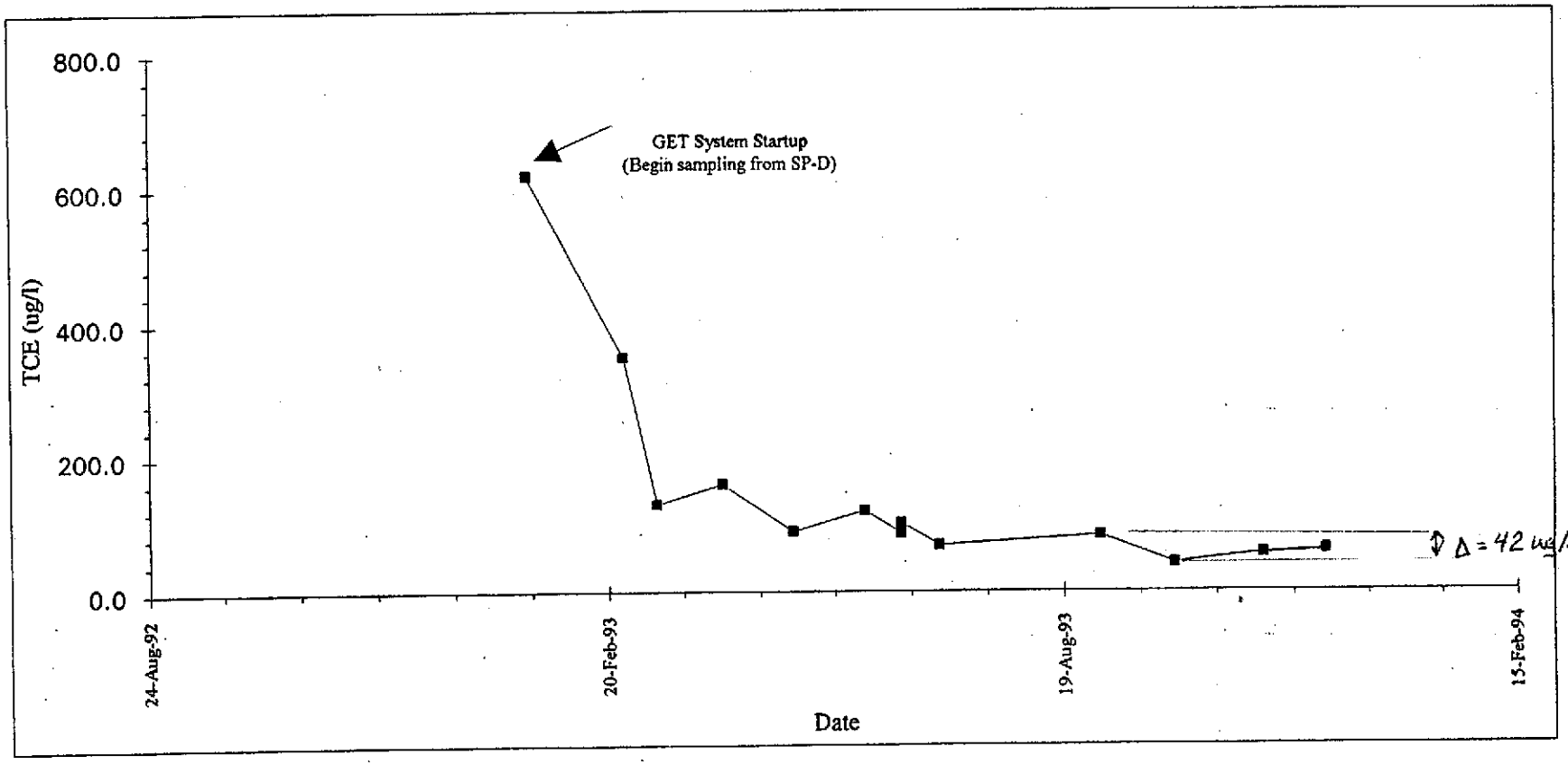

800.0
600.0
400.0
200.0
0.0
TCE (ug/l)
GET System Startup
(Begin sampling from SP-D)
Δ = 42 ug/l (~50%)
24-Aug-92
20-Feb-93
19-Aug-93
15-Feb-94
Date

TABLE 1

DEL MONTE PLANT NO. 35, WEST PARCEL
4204 HOLLIS STREET, EMERYVILLE, CA
QUARTERLY GROUNDWATER MONITORING RESLUTS

Monitoring Well	Sampling Date	Concentration (ug/l) 1,2-DCE(a)	1,1-DCE(b)	1,2-DCA(c)	TCE(d)	PCE(e)	VC(f)	1,2-DP(g)
MW7	17-Apr-91	85.0	<0.5	<0.5	23.0	14.0	5.1	<0.5
MW7	31-Jul-91	100.0	<0.5	<0.5	29.0	19.0	5.1	<0.5
MW7	22-Oct-91	130.0	<1.0	<1.0	30.0	20.0	3.0	<1.0
MW7	23-Jan-92	100.0	<0.5	<0.5	29.0	17.0	3.1	<0.5
MW7	23-Apr-92	92.0	<0.5	<0.5	46.0	28.0	<0.5	<0.5
MW7	17-Jul-92	93.0	<0.5	<0.5	51.0	30.0	1.8	<0.5
MW7	12-Oct-92	71.0	<0.5	<0.5	39.0	28.0	2.8	<0.5
MW7	13-Jan-93	54.0	<0.5	<0.5	25.0	16.0	2.1	<0.5
MW7	30-Mar-93	65.0	<0.5	<0.5	31.0	22.0	2.5	<0.5
MW7	16-Jun-93	45.0	<2.0	<2.0	25.0	19.0	2.7	<2.0
MW7	17-Sep-93	1.6	<1.0	<1.0	17.0	12.0	<1.0	<1.0
MW8	12-May-89	290.0	<10.0	<10.0	1400.0	20.0	78.0	<10.0
MW8	10-Jul-89	140.0	<2.5	<2.5	330.0	14.0	17.0	<2.5
MW8-dup	10-Jul-89	130.0	<2.5	<2.5	310.0	12.0	16.0	<2.5
MW8	24-Oct-89	100.0	<2.0	<2.0	330.0	24.0	4.0	<2.0
MW8	07-Feb-90	100.0	<2.0	<2.0	520.0	18.0	12.0	<2.0
MW8	10-Jul-90	5.0	<0.2	<0.5	91.0	36.0	3.0	<0.5
MW8	17-Oct-90	59.0	<1.0	<1.0	160.0	21.0	2.0	<1.0
MW8	24-Jan-91	160.0	<2.0	<5.0	450.0	13.0	9.0	27.0
MW8	17-Apr-91	210.0	<5.0	<5.0	830.0	16.0	<5.0	<5.0
MW8	31-Jul-91	85.0	<2.0	<2.0	350.0	30.0	<2.0	<2.0
MW8	22-Oct-91	40.0	<5.0	<5.0	630.0	20.0	<5.0	<5.0
MW8	23-Jan-92	160.0	<5.0	<5.0	690.0	29.0	<5.0	<5.0
MW8	23-Apr-92	130.0	<10.0	<10.0	1600.0	30.0	<10.0	<10.0
MW8	17-Jul-92	35.0	<2.0	<2.0	490.0	11.0	<2.0	<2.0
MW8	12-Oct-92	22.0	<1.0	<1.0	110.0	24.0	1.3	<1.0
MW8 (SP-D)	19-Jan-93	37.0	<0.5	<0.5	620.0	4.9	3.0	<0.5
MW8 (SP-D)	26-Feb-93	50.0	<0.5	<0.5	350.0	14.0	<0.5	<0.5
MW8 (SP-D)	11-Mar-93	44.9	<0.5	<0.5	130.0	25.0	<0.5	<0.5
MW8 (SP-D)	06-Apr-93	48.0	<1.0	<1.0	160.0	21.0	<1.0	<1.0
MW8 (SP-D)	04-May-93	29.0	<0.5	<0.5	89.0	14.0	<0.5	<0.5
MW8 (SP-D)	02-Jun-93	1.2	<1.0	<1.0	120.0	8.5	<1.0	<1.0
MW8 (Extr. Well)	16-Jun-93	66.8	<2.0	<2.0	86.0	31.0	1.4	<2.0
MW8 (SP-D)	16-Jun-93	62.0	<2.0	<2.0	102.0	24.0	<2.0	<2.0
MW8 (SP-D)	02-Sep-93	<1.0	<1.0	<1.0	83.0	11.0	<1.0	<1.0
MW8 (SP-D)	01-Oct-93	<1.0	<1.0	<1.0	41.0	10.0	<1.0	<1.0
MW8 (SP-D)	05-Nov-93	<1.0	<1.0	<1.0	56.0	11.0	<1.0	<1.0
MW8 (SP-D)	02-Dec-93	<1.0	<1.0	<1.0	68.0	11.0	<1.0	<1.0
MW9	10-Jul-89	63.0	<0.5	<0.5	13.0	38.0	16.0	<0.5
MW9	24-Oct-89	6.4	<0.5	<0.5	29.0	48.0	23.0	<0.5
MW9	07-Feb-90	55.0	<0.5	<0.5	15.0	30.0	7.1	<0.5
MW9	10-Jul-90	3.0	<0.2	<0.5	9.0	43.0	10.0	<0.5
MW9	17-Oct-90	70.0	<0.5	<0.5	14.0	32.0	4.6	<0.5
MW9	24-Jan-91	70.0	<2.0	<2.0	220.0	23.0	<2.0	<2.0
MW9	17-Apr-91	44.0	<0.5	<0.5	12.0	26.0	<0.5	<0.5
MW9	31-Jul-91	55.0	<0.5	<0.5	14.0	32.0	2.3	<0.5
MW9	22-Oct-91	71.0	<0.5	<0.5	15.0	33.0	2.8	<0.5
MW9	23-Jan-92	64.0	<0.5	<0.5	10.0	27.0	2.1	<0.5
MW9	23-Apr-92	22.0	<0.5	<0.5	11.0	29.0	<0.5	<0.5
MW9	17-Jul-92	26.0	<0.5	<0.5	13.0	32.0	<0.5	<0.5
MW9	12-Oct-92	41.0	<0.5	<0.5	17.0	36.0	3.0	<0.5

Filename: mwconc.xls

TABLE 1

DEL MONTE PLANT NO. 35, WEST PARCEL
4204 HOLLIS STREET, EMERYVILLE, CA
QUARTERLY GROUNDWATER MONITORING RESLUTS

Monitoring Well	Sampling Date	Concentration (ug/l) 1,2-DCE(a)	1,1-DCE(b)	1,2-DCA(c)	TCE(d)	PCE(e)	VC(f)	1,2-DP(g)
MW9	13-Jan-93	22.0	<0.5	<0.5	7.9	17.0	1.4	<0.5
MW9	30-Mar-93	26.0	<0.5	<0.5	9.6	22.0	2.1	<0.5
MW9	16-Jun-93	41.5	<2.0	<2.0	12.0	27.0	6.8	<2.0
MW9	17-Sep-93	1.6	<1.0	<1.0	11.0	21.0	3.5	<1.0
MW10	10-Jul-89	85.0	0.8	<0.5	27.0	42.0	28.0	<0.5
MW10	24-Oct-89	104.8	<0.5	<0.5	37.0	28.0	6.9	<0.5
MW10	07-Feb-90	50.0	<0.5	<0.5	11.0	8.0	5.3	<0.5
MW10	10-Jul-90	9.0	<0.2	<0.5	30.0	76.0	54.0	<0.5
MW10-dup	10-Jul-90	10.0	5.0	<0.5	28.0	69.0	17.0	<0.5
MW10	17-Oct-90	140.0	<0.5	<0.5	35.0	37.0	13.0	<0.5
MW10	24-Jan-91	65.0	<0.5	<0.5	14.0	31.0	3.3	<0.5
MW10	17-Apr-91	210.0	<2.0	<2.0	48.0	52.0	10.0	<2.0
MW10	31-Jul-91	280.0	<2.0	<2.0	66.0	14.0	2.0	<2.0
MW10	22-Oct-91	160.0	<1.0	<1.0	40.0	40.0	5.0	<1.0
MW10	23-Jan-92	240.0	<2.0	<2.0	46.0	54.0	10.0	<2.0
MW10	23-Apr-92	210.0	<2.0	<2.0	89.0	110.0	<2.0	<2.0
MW10	17-Jul-92	180.0	<1.0	<1.0	78.0	82.0	15.0	<1.0
MW10	12-Oct-92	110.0	<1.0	<1.0	45.0	46.0	11.0	<1.0
MW10	13-Jan-93	190.0	<1.0	<1.0	78.0	110.0	19.0	<1.0
MW10	30-Mar-93	26.0	<0.5	<0.5	15.0	18.0	0.7	<0.5
MW10	16-Jun-93	3.2	<2.0	<2.0	2.7	4.7	<2.0	<2.0
MW10	17-Sep-93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW11	10-Jul-89	73.0	<1.0	4.0	160.0	12.0	16.0	5.7
MW11	24-Oct-89	188.0	<2.0	10.0	410.0	15.0	22.0	20.0
MW11	07-Feb-90	105.0	<2.0	2.0	270.0	8.0	11.0	13.0
MW11	10-Jul-90	4.0	<2.0	23.0	46.0	18.0	15.0	<0.5
MW11	17-Oct-90	150.0	<2.0	11.0	300.0	8.0	<2.0	31.0
MW11	24-Jan-91	120.0	<1.0	<1.0	29.0	29.0	3.0	<1.0
MW11	17-Apr-91	100.0	<1.0	14.0	160.0	12.0	5.0	29.0
MW11	31-Jul-91	250.0	<2.0	<2.0	61.0	65.0	12.0	2.0
MW11	22-Oct-91	180.0	<2.0	5.0	560.0	20.0	5.0	30.0
MW11	23-Jan-92	160.0	<2.0	13.0	290.0	19.0	<2.0	21.0
MW11	23-Apr-92	30.0	<1.0	9.0	120.0	13.0	<1.0	14.0
MW11	17-Jul-92	26.0	<0.5	1.4	81.0	<0.5	<0.5	3.5
MW11	12-Oct-92	63.0	<3.0	4.4	450.0	16.0	5.2	17.0
MW11	13-Jan-93	29.0	<1.0	2.2	140.0	13.0	3.2	6.4
MW11	30-Mar-93	17.0	<0.5	<0.5	55.0	10.0	1.6	5.1
MW11	16-Jun-93	41.5	<2.0	6.3	230.0	20.0	7.0	7.2
MW11	17-Sep-93	<5.0	<5.0	<5.0	230.0	<5.0	<5.0	<5.0
WATER QUALITY STANDARDS								
	Primary MCL	—	6	0.5	5	5	0.5	5
	Cancer Risk	—	0.033	0.94	2.7	0.8	2	—
	AATC (Freshwater)	23200	11600	118000	45000	5280	—	23000

(a) 1,2-Dichloroethene*
(b) 1,1-Dichloroethene
(c) 1,2-Dichloroethane
(d) Trichloroethene
(e) Tetrachloroethene
(f) Vinyl chloride
(g) 1,2-Dichloropropane
(*) For EPA 624 the concentration listed is the sum of cis and trans 1,2-Dichloroethene where for EPA 601 the concentration listed is only trans-1,2-Dichloroethene.

Filename: mwconc.xls

Table 4
Volume and Concentration of Water Treated, and Mass of Constituent Removed

Date	Effective Date	Total Volume (gal)	Volume Treated (gal)	PCE* (µg/l)	TCE* (µg/l)	VC* (µg/l)	1,2 DCE* (µg/l)	Total VOC Conc. (µg/l)	Total Ave VOC Conc. (µg/l)	Mass Removed (g)
1/19/93				4.9	620	3.0	37	664.9		
2/26/93				14	350	0.5	50	414.5		
3/11/93				25	130	0.5	44.9	200.4		
4/6/93	4/6/93	477,251	477,251	21	160	1.0	48	230	377.5	666.5
5/4/93				14	89	0.5	29	132.5		
6/2/93				8.5	130	1.0	1.2	140.7		
6/16/93				24	102	2.0	62	190		
7/1/93	7/1/93	859,078	381,827	8.9	68	1.0	1.0	78.9	135.5	191.5
7/29/93				7.2	60	1.0	1.0	69.2		
9/2/93				11	83	1.0	1.0	96		
10/1/93	10/1/93	1,295,128	436,120	10	41	1.0	1.0	53	72.7	117.4
11/5/93				11	56	1.0	1.0	69		
12/2/93	12/2/93	1,534,549	239,351	11	68	1.0	1.0	81	75.0	66.4
3/9/94	3/9/94	1,662,752	128,203	4.4	130	1.0	1.0	136.4	136.4	64.7
6/16/94	6/16/94	2,207,717	544,965	13	37	1.0	1.0	52	52.0	104.9
9/30/94	9/30/94	2,881,810	674,093	2.5	2.5	1.0	1.0	7	7.0	17.5
12/6/94	12/6/94	3,310,748	428,938	1.4	5.5	4.0	1.0	11.9	11.9	18.9
3/9/95	3/9/95	3,384,517	73,769	3.4	16	1.0	1.0	21.4	21.4	5.8

* Concentrations below the detection limits were rounded to the detection level to determine the mass removed.

LARGE MAP REMOVED

FIGURE 1 + 2

MW-4

3500 GALLON GASOLINE TANK REMOVED 1985

Agency closure obtained

MW-3

Excavate soil containing petroleum hydrocarbons

EAST PARCEL

LABEL ROOM

PAINT STORAGE

Excavate soil containing petroleum hydrocarbons

BUCKER BLDG WAREHOUSE

MW-2

STORAGE YARD

WAREHOUSE

MW-1

WEST PARCEL

PROPOSED

CANNERY

BOILER HOUSE

Remove 20,000-gal fuel oil tank and affected soil

APPROXIMATE LOCATION OF FORMER FISH FITE

PITTING ROOM

PREPARATION DEPT

Excavate soil Containing petroleum hydrocarbons

BOX EXISTING GROUNDWATER EXTRACTION AND TREATMENT SYSTEM

MW-11

MW-9

OPEN YARD FRUIT RECEIVING

LEASED BUILDING

550 GALLON GASOLINE TANK REMOVED 1989

Agency closure obtained

COLD STORAGE BLDG

GENERAL OFFICES

550 GALLON GASOLINE TANK REMOVED 1986

Agency closure obtained

MW-6

MW-10

MW-7

PARK AVENUE

(street width not to scale)

MW-5

FORMER DEL MONTE EMPLOYEE PARKING

UNDERGROUND STORAGE TANKS AND SOLVENT-CONTAMINATED SOIL REMOVED 1993

LEGEND

- ⊕ Existing Monitoring Well
- Existing Building
- Del Monte Property Boundary

N

0 40' 80'

Scale in Feet

PLANNED,

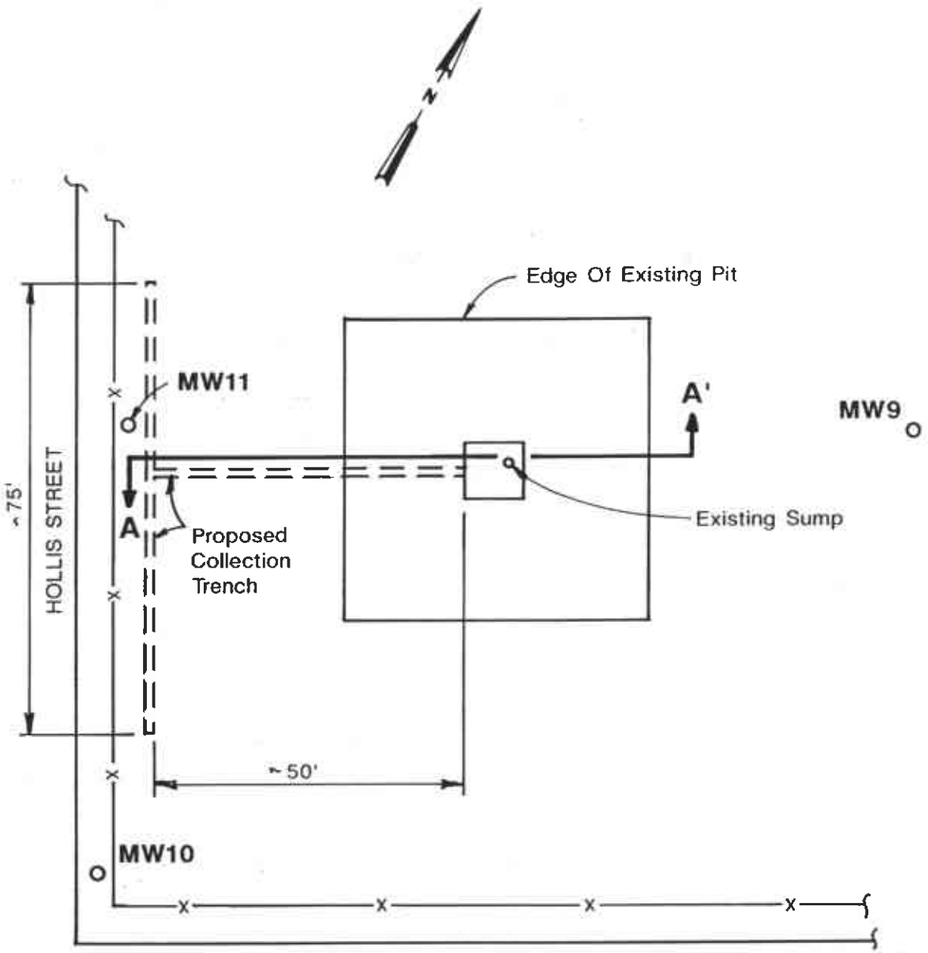
LOCATIONS OF COMPLETED OR ON-GOING REMEDIAL ACTIONS

Del Monte Plant 35

Emeryville, California

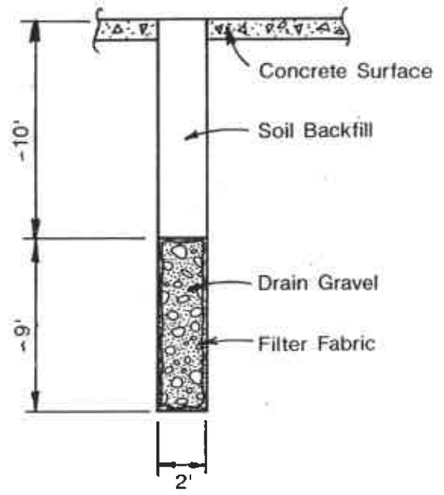
CH2MHILL

BAE28830.P2.01



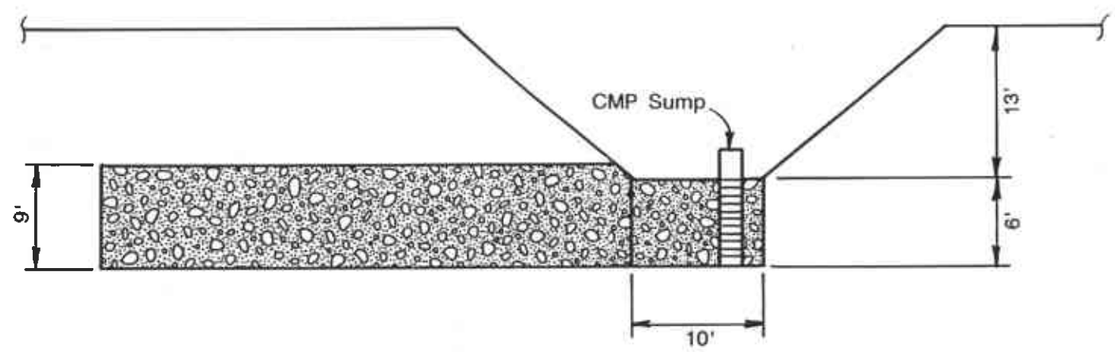
PLAN

Scale: 1" = 25'



COLLECTION TRENCH CROSS-SECTION

Not To Scale



SECTION A-A'

Not To Scale

PROPOSED EXPANSION OF COLLECTION SYSTEM
Del Monte Plant 35

CH2M HILL

BAE28830.P1.OS